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TITLE: PRODUCTION OF GALVANIZED STEEL WIRE HAVING HIGH STRENGTH AND HIGH TOUGHNESS

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ABSTRACT:

PURPOSE: To produce a high tensile galvanized steel wire free from the occurrence of longitudinal cracks in the twisting test and excellent in ductility by applying bending to a wire drawn steel wire prior to galvanizing and successively applying blueing treatment to the above wire under specific conditions.

CONSTITUTION: A steel wire prepared by wire drawing a high carbon steel, etc., is passed through plural rolls at 15-30° bending angle to undergo straightening. Subsequently, the above wire is subjected to blueing treatment at 480°C so that the relationship $T(20+\log t) > 13000$ is satisfied (where T is the blueing temperature indicated by the absolute temperature, and t is the blueing time indicated by the time). Then, hot dip galvanizing is applied to the above wire. The galvanized steel wire having high strength and high toughness obtained by this method can be used, e.g. for wires for bridge cable, for reinforcing transmission line, and for reinforcing submarine optical fiber cable.

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